CLAIMS

We claim:

1. A compound of formula I

$$(CH_2)_{m}$$
 $(CH_2)_{m}$
 $(CH_2)_{m}$
 $(CH_2)_{m}$
 $(CH_2)_{m}$
 $(CH_2)_{m}$
 $(CH_2)_{m}$
 $(CH_2)_{m}$

5 I

or a pharmaceutically acceptable salt thereof wherein

Y is

- a) $-NHC(=W)R^1$,
- b) -O-het, -S-het, or -NH-het;
- 10 X is
- a) -O-,
- b) -NR³-,
- c) $-S(=O)_{i}$, or
- d) $-S(=O)(=NR^4)$ -;
- 15 W is
- a) O, or
- b) S;

 R^1 is

- a) H,
- 20 b) C₁₋₈alkyl,
 - c) C₃₋₆cycloalkyl,
 - d) OC₁₋₄ alkyl,
 - e) SC₁₋₄ alkyl,
 - f) NH_2 ,
- g) NHC_{1-6} alkyl, or
 - h) $N(C_{1-6} \text{ alkyl})_2$;

R² is

- a) H,
- b) halo, or
- $c) \qquad c) \qquad C_{1\text{--}4} \text{ alkyl};$

 R^3 is

- Η. a)
- C₁₋₈alkyl, b)
- c) aryl,
- het. d)
- $C(=W)R^5$, 5 e)
 - $C(=O)OR^6$, or f)
 - $S(=O)_iR^7;$ g)

R⁴ is

- H, or a)
- C₁₋₈alkyl; b) 10

R⁵ is

- a) Η,
- b) aryl,
- het, c)
- 15
 - NR^8R^9 , or d)
 - C₁₋₈alkyl; e)

R⁶ is

- C_{1-8} alkyl, a)
- aryl, or b)
- c) het; 20

 R^7 is

- aryl, a)
- b) het,
- NR^8R^9 , or c)
- C₁₋₈alkyl; d) 25

R⁸ and R⁹ are independently

- a) H,
- C₁₋₈alkyl, or b)
- c) aryl;
- wherein >G-E- is >N-C- and Q is a carbon atom, or >G-E is >C=C- and Q is a 30 nitrogen atom;

aryl is a phenyl radical or an ortho-fused bicyclic carbocyclic radical wherein at least one ring is aromatic;

het is a C-linked five- (5) or six- (6) membered saturated or unsaturated heterocyclic ring having 1, 2, or 3 heteroatoms selected from the group consisting of oxygen, sulfur, and nitrogen, which is optionally fused to a benzene ring;

at each occurrence, alkyl or cycloalkyl is optionally substituted with one or more OR8,

- halo, aryl, $S(=O)_iR^7$, $C(=W)R^8$, $OC(=O)C_{1-6}$ alkyl, or NR^8R^9 ; at each occurrence, aryl is optionally substituted with one or more halo, OH, CF_3 , OC_{1-6} alkyl, CN, C_{1-6} alkyl, $S(=O)_iR^7$, $C(=W)R^8$, $OC(=O)R^8$, $NHC(=O)R^8$, or NR^8R^9 ; at each occurrence, het is optionally substituted with one or more halo, OH, CF_3 , OC_{1-6} alkyl, CN, C_{1-6} alkyl, $S(=O)_iR^7$, $C(=W)R^8$, $OC(=O)R^8$, $NHC(=O)R^8$, or NR^8R^9 ,
- 10 oxo, or oxime;

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m is 0, 1, 2, 3, or 4;

n is 0, 1, 2, 3, or 4; with the proviso that m and n taken together are 3 or 4; and i is 0, 1, or 2.

15 2. A compound of claim 1 which is a compound of formula IA:

$$X$$
 $(CH_2)_m$
 $(CH_2)_n$
 $(CH_2$

IA.

3. A compound of claim 2 wherein R² is H.

4. A compound of claim 2 wherein R^1 is C_{1-6} alkyl.

- 5. A compound of claim 2 wherein R¹ is methyl.
- 25 6. A compound of claim 4 wherein X is NR^3 .
 - 7. A compound of claim 6 wherein R^3 is $C(=0)R^5$, or $C(=0)OR^5$.
 - 8. A compound of claim 6 wherein R^3 is $C(=0)CH_2OH$.
 - 9. A compound of claim 6 wherein R³ is CHO.



10. A compound of claim 7 wherein R^5 is C_{1-4} alkyl, optionally substituted with $C(=O)C_{1-4}$ alkyl, $OC(=O)C_{1-4}$ alkyl, C(=O)phenyl, or phenyl, wherein said phenyl is optionally substituted with I, or CF_3 .

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11. A compound of claim 7 wherein R⁵ is phenyl.

12. A compound of claim 6 wherein R^3 is $C(=S)R^5$, wherein R^5 is aryl, alkyl or NR^8R^9 , wherein R^8 and R^9 are independently H, C_{1-4} alkyl or aryl.

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- 13. A compound of claim 6 wherein R^3 is $S(=O)_1C_{1-4}$ alkyl,
- 14. A compound of claim 6 wherein R³ is H, C₁₋₈alkyl, or aryl, .
- 15 15. A compound of claim 6 or 7 wherein m is 1 and n is 3.
 - 16. A compound of claim 6 or 7 wherein m is 2 and n is 2.
 - 17. A compound of claim 6 or 7 wherein m is 0 and n is 4.

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- 18. A compound of claim 6 or 7 wherein m is 1 and n is 2.
- 19. A compound of claim 6 or 7 wherein m is 2 and n is 1.
- 25 20. A compound of claim 4 wherein X is S, SO, or SO₂.
 - 21. A compound of claim 4 wherein X is O.
 - 22. A compound of claim 20 or 21 wherein m is 1 and n is 2.

- 23. A compound of claim 20 or 21 wherein m is 2 and n is 1.
- 24. A compound of claim 20 or 21 wherein m is 2 and n is 2.

15. A compound of claim 1 which is a compound of formula IB:

$$X$$
 $(CH_2)_m$
 $(CH_2)_n$
 A
 A
het

 \mathbb{B}

wherein A is O, S or NH and het is isoxazol-3-yl, isoxazol-5-yl, 1,2,4-oxadiazol-3-yl, isothiazol-3-yl, 1,2,4-thiadiazol-3-yl or 1,2,5-thiadiazol-3-yl.

26. A compound of claim 1 which is a compound of formula IC:

$$X$$
 $(CH_2)_m$
 $(CH_2)_n$
 N
 H
 R

IC.

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27. A compound of claim 1 which is a compound of formula ID

$$X$$
 $(CH_2)_m$ O A here

ID

wherein A is O, S or NH and het is isoxazol-3-yl, isoxazol-5-yl, 1,2,4-oxadiazol-3-yl, isothiazol-3-yl, 1,2,4-thiadiazol-3-yl or 1,2,5-thiadiazol-3-yl.

- 28. A method for treating microbial infections comprising: administering to a mammal in need thereof an effective amount of a compound of claim 1.
- 29. The method of claim 28 wherein said compound is administered orally, parenterally, transdermally, or topically.
 - 30. The method of claim 28 wherein said compound is administered in an amount of from about 0.1 to about 150 mg/kg of body weight/day.

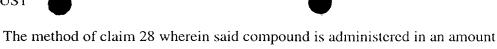
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33. The method of claim 28 wherein said infection is skin infection.

of from about 3 to about 100 mg/kg of body weight/day.

- 33. The method of claim 28 wherein the infection is eye infection.
- 34. A pharmaceutical composition comprising the compound of claim 1 and a pharmaceutically acceptable carrier.
- 35. The method of claim 28 wherein said compound is administered in an amount of 600mg per day by IV or by oral.
- 36. The method of claim 22 wherein said mammal is human or an animal.
- 37. A compound of claim 1 which is
- a) (-)-methyl 6-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-3,4-dihydro-2(1*H*)-isoquinolinecarboxylate,
- b) (-)-N-[[(5S)-3-[2-formyl-1,2,3,4-tetrahydro-6-isoquinolinyl]-2-oxo-5-oxazolidinyl]methyl]acetamide,
- c) (-)-N-[[(5S)-3-[2-[(acetyloxy)acetyl]-1,2,3,4-tetrahydro-6-isoquinolinyl]-2-oxo-5-oxazolidinyl]methyl]acetamide,
- d) (-)-N-[[(5S)-3-[2-[(hydroxy)acetyl]-1,2,3,4-tetrahydro-6-isoquinolinyl]-2-oxo-5-oxazolidinyl]methyl]acetamide,
- e) (+)-methyl 6-[(5S)-5-[(ethanethioylamino)methyl]-2-oxo-3-oxazolidinyl]-3,4-dihydro-2(1*H*)-isoquinolinecarboxylate,
 - f) (+)-N-[[(5S)-3-[2-formyl-1,2,3,4-tetrahydro-6-isoquinolinyl]-2-oxo-5-oxazolidinyl]methyl]ethanethioamide, or
- g) (+)-N-[[(5S)-3-[2-[(hydroxy)acetyl]-1,2,3,4-tetrahydro-6-isoquinolinyl]-2-oxo-30 5-oxazolidinyl]methyl]ethanethioamide.
 - 38. A compound of claim 1 which is
 - a) (+)-N-[[(5S)-3-[2-formyl-1,2,3,4-tetrahydro-7-isoquinolinyl]-2-oxo-5-oxazolidinyl]methyl]ethanethioamide, or



- b) (+)-N-[[(5S)-3-[2-[(hydroxy)acetyl]-1,2,3,4-tetrahydro-7-isoquinolinyl]-2-oxo-5-oxazolidinyl]methyl]ethanethioamide.
- 39. A compound of claim 1 which is
- 5 a) (-)-N-[[(5S)-3-(3,4-dihydro-1H-2-benzopyran-6-yl)-2-oxo-5-oxazolidinyl]methyl]acetamide,
 - b) (+)-N-[[(5S)-3-(3,4-dihydro-1H-2-benzopyran-6-yl)-2-oxo-5-oxazolidinyl]methyl]ethanethioamide,
- c) (-)-N-[[(5S)-3-(3,4-dihydro-1H-2-benzothiopyran-6-yl)-2-oxo-5oxazolidinyl]methyl]acetamide,
 - d) (+)-N-[[(5S)-3-(3,4-dihydro-1H-2-benzothiopyran-6-yl)-2-oxo-5-oxazolidinyl]methyl]ethanethioamide, or
 - e) (+)-N-[[(5S)-3-(3,4-dihydro-2,2-dioxido-1H-2-benzothiopyran-6-yl)-2-oxo-5-oxazolidinyl]methyl]ethanethioamide.

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- 40. A compound of claim 1 which is
- a) (+)-N-[[(5S)-3-(3,4-dihydro-1H-2-benzopyran-7-yl)-2-oxo-5-oxazolidinyl]methyl]ethanethioamide,
- b) (-)-N-[[(5S)-3-(3,4-dihydro-1H-2-benzothiopyran-7-yl)-2-oxo-5-oxazolidinyl]methyl]acetamide,
- c) (+)-N-[[(5S)-3-(3,4-dihydro-1H-2-benzothiopyran-7-yl)-2-oxo-5-oxazolidinyl]methyl]ethanethioamide,
- d) (+)-N-[[(5S)-3-(3,4-dihydro-2,2-dioxido-1H-2-benzothiopyran-7-yl)-2-oxo-5-oxazolidinyl]methyl]ethanethioamide, or
- e) N-[[(5S)-3-(3,4-dihydro-2-oxido-1H-2-benzothiopyran-7-yl)-2-oxo-5-oxazolidinyl]methyl]acetamide.
 - 41. A compound of claim 1 which is
 - a) N-{[(5S)-3-(3-formyl-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl]methyl}acetamide,
 - b) N-{[(5S)-3-(3-glycoloyl-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl]methyl}acetamide,
 - c) benzyl 7-{(5S)-5-[(acetylamino)methyl]-2-oxo-1,3-oxazolidin-3-yl}-1,2,4,5-tetrahydro-3H-3-benzazepine-3-carboxylate,

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- d) N-{[(5S)-3-(3-glycoloyl-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl]methyl}ethanethioamide,
- e) N-{[(5S)-3-(3-acetyl-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl]methyl}acetamide,
- 5 f) methyl 7-{(5S)-5-[(acetylamino)methyl]-2-oxo-1,3-oxazolidin-3-yl}-1,2,4,5-tetrahydro-3H-3-benzazepine-3-carboxylate,
 - g) N-{[(5S)-3-(3-benzoyl-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl]methyl}acetamide,
 - h) N-({(5S)-3-[3-(5-amino-1,3,4-thiadiazol-2-yl)-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl]-2-oxo-1,3-oxazolidin-5-yl}methyl)acetamide
 - i) N-({(5S)-3-[3-(methylsulfonyl)-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl]-2-oxo-1,3-oxazolidin-5-yl}methyl)acetamide,
 - j) N-({(5S)-3-[3-(5-methylthio-1,3,4-thiadiazol-2-yl)-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl]-2-oxo-1,3-oxazolidin-5-yl}methyl)acetamide,
- N-({(5S)-3-[3-(5-methyl-1,3,4-thiadiazol-2-yl)-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl]-2-oxo-1,3-oxazolidin-5-yl}methyl)acetamide,
 - l) phenyl 7-{(5S)-5-[(acetylamino)methyl]-2-oxo-1,3-oxazolidin-3-yl}-1,2,4,5-tetrahydro-3H-3-benzazepine-3-carboxylate,
 - m) N-[((5S)-3-{3-(phenyl)acetyl-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl}-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide,
 - o) N-[((5S)-3-{3-[5-(formylamino)-1,3,4-thiadiazol-2-yl]-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl}-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide,
 - p) N-[5-(7-{(5S)-5-[(acetylamino)methyl]-2-oxo-1,3-oxazolidin-3-yl}-1,2,4,5-tetrahydro-3H-3-benzazepin-3-yl)-1,3,4-thiadiazol-2-yl]-2-hydroxyacetamide,
- 25 q) N-[((5S)-3-{3-[(4-iodophenyl)acetyl]-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl}-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide,
 - r) N-[((5S)-3-{3-[(3-trifluoromethyl)phenyl)acetyl]-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl}-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide,
- s) 2-(7-{(5S)-5-[(acetylamino)methyl]-2-oxo-1,3-oxazolidin-3-yl}-1,2,4,5-30 tetrahydro-3H-3-benzazepin-3-yl)-2-oxoethyl 4-[(dimethylamino)methyl] benzoate,
 - t) N-[((5S)-3-{3-[(4-trifluoromethyl)phenyl)acetyl]-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl}-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide,

- u) N-({(5S)-2-oxo-3-[3-(5-oxopentanoyl)-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl]-1,3-oxazolidin-5-yl}methyl)acetamide,
- v) N-({(5S)-2-oxo-3-[3-(5-oxohexanoyl)-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl]-1,3-oxazolidin-5-yl}methyl)acetamide,
- 5 x) N-{[(5S)-3-(2-formyl-1,3,4,5-tetrahydro-1H-2-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl]methyl}acetamide,
 - w) N-{[(5S)-3-(2-glycoloyl-1,3.4,5-tetrahydro-1H-3-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl]methyl}acetamide,
 - x) benzyl 7-{(5S)-5-[(acetylamino)methyl]-2-oxo-1,3-oxazolidin-3-yl}-1,3,4,5-tetrahydro-3H-2-benzazepine-2-carboxylate,
 - y) N-{[(5S)-3-(2-acetyl-1,3,4,5-tetrahydro-1H-2-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl]methyl}acetamide,
 - z) methyl 7-{(5S)-5-[(acetylamino)methyl]-2-oxo-1,3-oxazolidin-3-yl}-1,3,4,5-tetrahydro-3H-2-benzazepine-2-carboxylate,
- 15 aa) 7-{(5S)-5-[(acetylamino)methyl]-2-oxo-1,3-oxazolidin-3-yl}-N-phenyl-1,3,4,5-tetrahydro-2H-2-benzazepine-2-carboxamide,
 - bb) N-{[(5S)-3-(1-formyl-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl]methyl}acetamide, or
- cc) N-{[(5S)-3-(1-formyl-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl]methyl}ethanethioamide.
 - 42. A compound of claim 1 which is
 - a) N-[[(5S)-2-oxo-3-(1,2,4,5-tetrahydro-3-benzothiepin-7-yl)-5-oxazolidinyl]methyl]acetamide,
- b) N-[[(5S)-2-oxo-3-(1,2,4,5-tetrahydro-3,3-dioxido-3-benzothiepin-7-yl)- 5-oxazolidinyl]methyl]acetamide,
 - c) N-[[(5S)-2-oxo-3-(1,2,4,5-tetrahydro-3-benzothiepin-7-yl)-5-oxazolidinyl]methyl]ethanethioamide, or
- d) N-[[(5S)-2-oxo-3-(1,2,4,5-tetrahydro-3,3-dioxido-3-benzothiepin-7-yl)-5 oxazolidinyl]methyl]ethanethioamide.